AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for transmitting wireless signals in a CDMA distributed antenna system, the method comprising the steps of:

providing a plurality of antennae antennas, where each antenna is configured to transmit a wireless signal to a receiver;

identifying one of the plurality of antennae antennas to transmit the wireless signal to the receiver based on a reliability of the one of the plurality of antennae, the reliability being determined from a probability of transmission of the wireless signal by the one of the plurality of antennae by selecting the one of the plurality of antennas based on a geographic proximity to the receiver; and

transmitting the wireless signal by the one of the plurality of antennae antennas to the receiver.

2. (Canceled)

3. (Currently Amended) The method of Claim 1, wherein the step of <u>further comprising</u>: identifying one of the plurality of antennae based on a reliability of the one of the plurality of antennae to transmit the wireless signal to the receiver further comprises the steps of:

collecting and storing reliability data for transmissions from each of the plurality of antennae antennas to the receiver; and

selecting one of the plurality of antennae antennas based on the stored reliability data.

4. (Canceled)

5. (Currently Amended) The method of Claim 1, wherein the step of identifying the one of the plurality of antennae antennas further comprises the steps of:

monitoring a reverse communication link between the receiver and each one of the plurality of antennae_antennas thereby determining a signal strength of each incoming reverse communication link at each antenna; and

selecting one of the plurality of <u>antennae</u> <u>antennas</u> based upon the signal strength of the reverse communication link.

- 6. (Currently Amended) The method of Claim 5, wherein the step of selecting one of the plurality of <u>antennae</u> <u>antennas</u> based upon the signal strength of the reverse communication link further comprises the step of selecting one of the plurality of <u>antennae</u> <u>antennas</u> where the signal strength of the reverse communication link meets a preferred signal strength.
- 7. (Currently Amended) The method of Claim 1, wherein the step of identifying the one of the plurality of antennae antennas further comprises the step of calculating a distance between each one of the plurality of antennae antennas and the receiver thereby establishing a set of distances.
- 8. (Currently Amended) The method of Claim 7, wherein the step of identifying the one of the plurality of antennae antennas further includes the step of selecting one of the plurality of antennae antennas corresponding to the smallest distance among the set of distances.
- 9. (Currently Amended) The method of Claim 1, wherein the step of identifying the one of the plurality of antennae antennas includes the step of determining the availability of the plurality of antennae antennas, wherein an available antenna is an antenna not currently in use.
- 10. (Currently Amended) The method of Claim 9, wherein the step of identifying the one of the plurality of antennae includes selecting one of the plurality of antennae antennas based on the availability of each one of the plurality of antennae antennas.
- 11. (Currently Amended) A CDMA distributed antenna system comprising in combination:
- a plurality of antennae antennas, where each antenna is configured to transmit a wireless signal;

a pathway manager coupled to the plurality of antennae antennas, the pathway manager configured to identify one of the plurality of antennae antennas to transmit the wireless signal based on a reliability of the one of the plurality of antennae, the reliability being determined from a probability of transmission of the wireless signal by the one of the plurality of antennae by selecting the one of the plurality of antennas based on a geographic proximity to the receiver; and

a receiver configured to receive the wireless signal transmitted by the one of the plurality of antennae antennas.

12. (Original) The system of Claim 11, wherein the pathway manager is a device selected from the group consisting of a base transceiver station (BTS), a distributed antenna system controller (DAS), and the receiver.

13-14. (Canceled)

- 15. (Currently Amended) The system of Claim 11, wherein the pathway manager identifies the one of the plurality of antennae—antennas by monitoring a reverse link communication between the receiver and each antenna thereby determining signal strengths of incoming wireless signals at each antenna.
- 16. (Currently Amended) The system of Claim 15, wherein the pathway manager selects the one of the plurality of antennae antennas with a preferred signal strength.
- 17. (Currently Amended) The system of Claim 11, wherein the pathway manager identifies the one of the plurality of <u>antennae_antennas_by</u> calculating a distance between each antenna and the receiver thereby establishing a set of distances.
- 18. (Currently Amended) The system of Claim 17, wherein the pathway manager selects the one of the plurality of <u>antennae_antennas_corresponding</u> to the smallest distance among the set of distances.

19. (Currently Amended) The system of Claim 11, wherein the pathway manager identifies the one of the plurality of <u>antennae_antennas</u> by selecting the one of the plurality of <u>antennae_antennas</u> based on an availability of the plurality of <u>antennae_antennas</u>, wherein an available antenna is an antenna not currently in use.

20. (Currently Amended) A method of optimizing transmission of wireless signals to a receiver in a CDMA distributed antenna system comprising the steps of:

providing a plurality of <u>antennae antennas</u>, wherein the plurality of <u>antennae antennas</u> are configured to transmit a wireless signal;

selecting one of the plurality of antennae antennas to transmit the wireless signal to the receiver based on a reliability of the one of the plurality of antennae, the reliability being determined from a probability of transmission of the wireless signal by the one of the plurality of antennae based on geographic proximity of the one of the plurality of antennas to the receiver;

transmitting the wireless signal to the receiver using the selected one of the plurality of antennae antennas; and

disabling unselected ones of the plurality of antennae antennas from transmitting to the receiver.

21. (Currently Amended) The method of Claim 20, wherein the step of selecting one of the plurality of antennae antennas further comprises the steps of:

measuring a signal strength of a communication link to the receiver for each one of the plurality of antennae antennas; and

selecting one of the plurality of antennae antennas having the highest measured signal strength.

22. (Currently Amended) The method of Claim 21, wherein the step of measuring a signal strength of a communication link to the receiver for each one of the plurality of antennae antennas further comprises measuring a signal strength of a reverse link from the receiver to each one of the plurality of antennae antennas.

- 23. (Currently Amended) The method of Claim 21, wherein the step of measuring a signal strength of a communication link to the receiver for each one of the plurality of antennae antennas further comprises measuring a signal strength of a communication signal from each one of the plurality of antennae antennas to the receiver.
- 24. (Currently Amended) The method of Claim 20, wherein the step of selecting one of the plurality of antennae antennas further comprises the steps of:

maintaining data relating to reliability of transmissions to the receiver for each one of the plurality of antennae antennas; and

selecting one of the plurality of antennae antennas having the highest level of reliability.

25. (Currently Amended) The method of Claim 20, wherein the step of selecting one of the plurality of antennae antennas further comprises the steps of:

maintaining data relating to a proximity to the receiver for each one of the plurality of antennae antennas; and

selecting one of the plurality of antennae antennas having the closest proximity to the receiver.

- 26. (Currently Amended) The method of Claim 25, wherein the step of maintaining data relating to a proximity to the receiver for each one of the plurality of <u>antennae_antennas</u> includes maintaining data relating to interference between each one of the plurality of <u>antennae_antennae_antennas_and</u> the receiver.
- 27. (Original) The method of Claim 20, wherein the steps of the method are performed in a device selected from the group consisting of a BTS, a DAS, and the receiver.
 - 28. (Currently Amended) A pathway manager comprising in combination: a processor;
- an antenna database coupled to the processor, the antenna database containing information of each antenna within a plurality of antennae antennas of an antenna system;

a data storage medium coupled to the processor;

an interface coupled to the processor, the antenna database, and the data storage medium, the interface configured to communicate with the plurality of antenna; and

a set of machine language instructions stored in the data storage medium executable by the processor in response to a request from a base transceiver station (BTS) to perform functions including:

accessing the antenna database to determine selection characteristics of the plurality of antennae antennas and;

identifying one of the plurality of <u>antennae</u> antennas to transmit a wireless signal to a receiver based on geographic proximity of the one of the plurality of <u>antennae</u> antennas to the receiver and based on the selection characteristics.

29. (Original) The pathway manager of Claim 28, wherein the selection characteristics are selected from the group consisting of availability of use, reliability of receiving the wireless signal, and expected transmission signal strength.

30. (Original) The pathway manager of Claim 28, wherein the interface is selected from the group consisting of a transmitter, a coaxial cable, an Ethernet cable, and a T1 line.